

*If you are using a printed copy of this procedure, and not the on-screen version, then you **MUST** make sure the dates at the bottom of the printed copy and the on-screen version match.
The on-screen version of the Collider-Accelerator Department Procedure is the Official Version.
Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A.*

C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.120.8.b 8 O'Clock (PEER 17) Gate Tests

C-A-OPM Procedures in which this Attachment is used.		
4.120.8		

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Approved: _____ *Signature on File* _____
 Collider-Accelerator Department Chairman _____ Date _____

V. Castillo

4.120.8.b 8 O’Clock (PEER 17) Gate Tests

PASS ANNUAL ACCEPTANCE TEST PROTOCOL

Division A Software Filename and Checksum: Title: _____ Checksum: _____

Division B Software Filename and Checksum: Title: _____ Checksum: _____

Initial testing complete:

Test Team Leader’s Name (Print): _____ Life Number: _____

Test Team Leader’s Name (Sign): _____ Date: ____/____/____

Acceptance test procedure complete (following repairs and retesting if required):

Test Team Leader’s Name (Print): _____ Life Number: _____

Test Team Leader’s Name (Sign): _____ Date: ____/____/____

Test results reviewed by:

Safety Section Head’s Name (Print): _____ Life Number: _____

Safety Section Head’s Name (Sign): _____ Date: ____/____/____

Test results accepted by Radiation Safety Committee:

RSC Member’s Name (Print): _____ Life Number: _____

RSC Member’s Name (Sign): _____ Date: ____/____/____

1.1 CONDUCT Visual check on **Peer 17** gates following Table-1, below

Gate	Micro Switch		Elec Wiring	Gate Box	Lights	Gate Functions			Verify all x's Corr.	Inspn O.K. Init.
	Align	Opern				Open	Self-Closing	Latch		
7GS1I									<input type="checkbox"/>	
7GS1O									<input type="checkbox"/>	
7EL1									<input type="checkbox"/>	
7GE1									<input type="checkbox"/>	
7MD1									<input type="checkbox"/>	
8GE1*									<input type="checkbox"/>	
8GE2									<input type="checkbox"/>	
8MD1									<input type="checkbox"/>	
8EL1									<input type="checkbox"/>	
8ED1*									<input type="checkbox"/>	
8ED2									<input type="checkbox"/>	
9GS1									<input type="checkbox"/>	

Legend: \surd = O.K. x = Problem N/A = Not Applicable

* These 2 gates are available for testing only when the PHENIX Plug Door is open.

Table 1: Summary of Physical Inspection of Peer 17 Gates

1.2 Test INNER GATE at 7GS1

<input type="checkbox"/>	VERIFY	Gate has been inspected	
<input type="checkbox"/>	PLACE	PEER 7 in Restricted Access (Mode 8)	
<input type="checkbox"/>	VERIFY	PEER 7 is in Restricted Access	MODE 8
<input type="checkbox"/>	PLACE	PEER 17 in Controlled Access (MODE 16)	
<input type="checkbox"/>	VERIFY	PEER 17 is in Controlled Access	MODE 16
<input type="checkbox"/>	VERIFY	The warning lights and LED message: Stop Call MCR for Access X-7400 Stop on both sides of the gate are	ON
<input type="checkbox"/>	OPEN	The gate	
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is	OPEN
<input type="checkbox"/>	HOLD	Both of the PEER 17 gate micro switches	MADE
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is	CLOSED
<input type="checkbox"/>	RELEASE	Div A PEER 17 micro switch	
<input type="checkbox"/>	VERIFY	Operator Interface indicates Div A	OPEN
<input type="checkbox"/>	HOLD	Both of the PEER 17 gate micro switches	MADE
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is	CLOSED
<input type="checkbox"/>	RELEASE	Div B PEER 17 micro switch	
<input type="checkbox"/>	VERIFY	Operator Interface indicates Div B	OPEN
<input type="checkbox"/>	CLOSE	The gate	
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is	CLOSED

- | | | | |
|--------------------------|--|---|----------------|
| <input type="checkbox"/> | VERIFY
RESET | The 7Z1 gate box Gate Reset light is
The gate with #15 RC Sweep key at 7Z1 inner gate box | OFF |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | RESET |
| <input type="checkbox"/> | VERIFY
OPEN | The 7Z1 gate box Gate Reset light is
The gate | ON |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | OPEN |
| <input type="checkbox"/> | VERIFY
CLOSE | The 7Z1 gate box Gate Reset light is
The gate | OFF |
|
 | | | |
| <input type="checkbox"/> | PLACE
VERIFY | PEER 17 in Controlled Access (MODE 17)
PEER 17 is in Controlled Access | MODE 17 |
| <input type="checkbox"/> | VERIFY | The warning lights and LED message: Stop Call MCR for Access X-7400 Stop on both sides of the gate are | ON |
|
 | | | |
| <input type="checkbox"/> | PLACE
VERIFY | PEER 17 in Restricted Access (Mode 8)
PEER 17 is in Restricted Access | MODE 8 |
| <input type="checkbox"/> | VERIFY | The warning lights and LED message on both sides of the gate: Access Permitted is | ON |
|
 | | | |
| <input type="checkbox"/> | PLACE
VERIFY | PEER 17 in Safe Access (Mode 2)
PEER 17 is in Safe Access | MODE 2 |
| <input type="checkbox"/> | VERIFY | The warning lights and LED message: Stop Call MCR for Access X-7400 Stop on both sides of the gate are | ON |
|
 | | | |
| <input type="checkbox"/> | CHECK for test acceptance of INNER GATE at 7GS1 | | |

1.3 Test OUTER GATE at 7GS1

- | | | | |
|--------------------------|--|---|------------------------|
| <input type="checkbox"/> | PLACE
VERIFY | PEER 17 in Controlled Access (MODE 16)
PEER 17 is in Controlled Access | MODE 16 |
| <input type="checkbox"/> | VERIFY | The warning lights on both sides of the gate indicate:
CALL MCR FOR CROSSOVER AMBER | ON |
| <input type="checkbox"/> | OPEN
VERIFY | The gate
Operator Interface sees the gate is | OPEN |
| <input type="checkbox"/> | HOLD
VERIFY | Both of the PEER 17 gate micro switches
Operator Interface sees the gate is | MADE
CLOSED |
| <input type="checkbox"/> | RELEASE
VERIFY | Div A PEER 17 micro switch
Operator Interface indicates Div A | OPEN |
| <input type="checkbox"/> | HOLD
VERIFY | Both of the PEER 17 gate micro switches
Operator Interface sees the gate is | MADE
CLOSED |
| <input type="checkbox"/> | RELEASE
VERIFY | Div B PEER 17 micro switch
Operator Interface indicates Div B | OPEN |
| <input type="checkbox"/> | CLOSE
VERIFY | The gate
Operator Interface sees the gate is | CLOSED |
|
 | | | |
| <input type="checkbox"/> | CHECK for test acceptance of OUTER GATE at 7GS1 | | |

1.4 Test ESCAPE DOOR at 7EL1

- | | | | |
|--------------------------|----------------|---|----------------|
| <input type="checkbox"/> | VERIFY | Gate has been inspected | |
| <input type="checkbox"/> | VERIFY | The door cannot be opened from | OUTSIDE |
| | PLACE | PEER 17 in Controlled Access (MODE 16) | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Controlled Access | MODE 16 |
| | OPEN | The door | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the door is | OPEN |
| | SECURE | The Security Bar micro switch | MADE |
| | HOLD | Both of the door micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | Div A door micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div A | OPEN |
| | HOLD | Both of the door micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | Div B door micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div B | OPEN |
| | HOLD | Both of the door micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the door is | CLOSED |
| | RELEASE | The Security Bar micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the door is | OPEN |
| | CLOSE | The door and latch the Security Bar | |
| <input type="checkbox"/> | VERIFY | The 7EL1 Door Reset light is | OFF |
| | RESET | The Door with #15 RC Sweep key at 7EL1 gate box | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the 7EL1 door is | RESET |
| <input type="checkbox"/> | VERIFY | The 7EL1 Door Reset light is | ON |
| | OPEN | The door | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the door is | OPEN |
| <input type="checkbox"/> | VERIFY | The 7EL1 gate box Gate Reset light is | OFF |
| | CLOSE | The door | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the door is | CLOSED |
| <input type="checkbox"/> | VERIFY | The 7EL1 gate box Gate Reset light is | OFF |

- ☐ **CHECK** for test acceptance of **ESCAPE DOOR** at **7EL1**

1.5 Test of ENTRY GATE at 7GE1

- | | | | |
|--------------------------|---------------|---|----------------|
| <input type="checkbox"/> | VERIFY | INNER Gate at 7GE1 has been inspected | |
| | PLACE | PEER 17 in Controlled Access (MODE 16) | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Controlled Access | MODE 16 |
| <input type="checkbox"/> | VERIFY | The warning light on the inside of the gate indicates: | |
| | | CALL MCR FOR EXIT AMBER | ON |
| <input type="checkbox"/> | VERIFY | The Exterior gate box Controlled Access light is | ON |
| | OPEN | Gate 7GE1 with Simultaneous Release and #14 CA Key | |
| <input type="checkbox"/> | VERIFY | Simultaneous Release Buzzer | SOUNDS |
| <input type="checkbox"/> | VERIFY | Gate 7GE1 is | OPEN |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | OPEN |
| | SECURE | The Electric Strike micro switch | MADE |
| | HOLD | Both of the gate micro switches | MADE |

- | | | | |
|--------------------------|----------------|--|-------------------|
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | Div A micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div A | OPEN |
| | HOLD | Both of the gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | Div B micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div B | OPEN |
| | HOLD | Both of the gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | The Electric Strike micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | OPEN |
| | CLOSE | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| <input type="checkbox"/> | VERIFY | The gate box Gate Reset light is | OFF |
|
 | | | |
| | PLACE | PEER 17 in Controlled Access (MODE 17) | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Controlled Access | MODE 17 |
| <input type="checkbox"/> | VERIFY | The 7Z1 gate box Controlled Access light is | ON |
| <input type="checkbox"/> | VERIFY | The warning light on the inside of the gate indicate: | |
| | | CALL MCR FOR EXIT AMBER | ON |
| | OPEN | Gate 7GE1 from gate box with the S key and | |
| | | Simultaneous Release | |
| <input type="checkbox"/> | VERIFY | Attempt to open Gate 7GE1 is | FAIL |
| | OPEN | Gate 7GE1 with the #14 RC CA key and | |
| | | Simultaneous Release | |
| <input type="checkbox"/> | VERIFY | Gate 7GE1 is | OPEN |
| | CLOSE | Gate 7GE1 | |
|
 | | | |
| | PLACE | PEER 17 in Restricted Access (Mode 8) | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Restricted Access | MODE 8 |
| <input type="checkbox"/> | VERIFY | The Exterior gate box Restricted Access light is | ON |
| <input type="checkbox"/> | VERIFY | The warning lights on both sides of the gate indicate: | |
| | | CALL MCR FOR EXIT AMBER | OFF |
| <input type="checkbox"/> | VERIFY | Attempt to open gate 7GE1 with S key is | SUCCESSFUL |
| <input type="checkbox"/> | VERIFY | Attempt to open Gate 7GE1 with #14 RC CA key is | SUCCESSFUL |
| <input type="checkbox"/> | VERIFY | Attempt to open 7GE1 with Blue card | SUCCESSFUL |
| <input type="checkbox"/> | VERIFY | Attempt to open 7GE1 with Expt. _____ card | FAIL |
| <input type="checkbox"/> | VERIFY | During attempt with Expt. Card Reader light is | RED |
|
 | | | |
| | PLACE | PEER 17 in Safe Access (Mode 2) | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Safe Access | MODE 2 |
| <input type="checkbox"/> | VERIFY | The Exterior gate box Controlled Access light is | ON |
| <input type="checkbox"/> | VERIFY | The warning light on inside of the gate indicates: | |
| | | CALL MCR FOR EXIT AMBER | ON |
| | OPEN | Gate 7GE1 with Simultaneous Release and S Key | |
| <input type="checkbox"/> | VERIFY | Attempt to open gate 7GE1 with Simultaneous | |
| | | Release and S Key | FAIL |
| | OPEN | Gate 7GE1 with Simultaneous Release and #14 CA | |
| | | Key | |
| <input type="checkbox"/> | VERIFY | Gate 7GE1 is | OPEN |
| | CLOSE | Gate 7GE1 | |
|
 | | | |
| <input type="checkbox"/> | CHECK | for test acceptance of ENTRY GATE at 7GE1 | |

1.6 Test of MAGNET TRANSPORT GATE, LEFT SIDE, at 7MD1

- | | | | |
|--------------------------|----------------|---|----------------|
| <input type="checkbox"/> | VERIFY | Gate has been inspected | |
| | PLACE | PEER 17 in Controlled Access (MODE 16) | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Controlled Access | MODE 16 |
| | OPEN | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | OPEN |
| | HOLD | Both gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | Div A micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div A | OPEN |
| | HOLD | Both gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | Div B micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div B | OPEN |
| | CLOSE | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| <input type="checkbox"/> | VERIFY | The gate box Gate Reset light is | OFF |
| | RESET | The gate with #15 RC Sweep key | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | RESET |
| <input type="checkbox"/> | VERIFY | The gate box Gate Reset light is | ON |
| | OPEN | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| <input type="checkbox"/> | VERIFY | The gate box Gate Reset light is | OFF |
| | CLOSE | The gate | |

- ☐ **CHECK** for test acceptance of **MAGNET TRANSPORT GATE, LEFT SIDE, at 7MD1**

1.7 Test of MAGNET TRANSPORT GATE, RIGHT SIDE, at 7MD1

- | | | | |
|--------------------------|----------------|---|----------------|
| <input type="checkbox"/> | VERIFY | Gate has been inspected | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Restricted Access | MODE 8 |
| | PLACE | PEER 17 in Controlled Access (MODE 16) | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Controlled Access | MODE 16 |
| | OPEN | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | OPEN |
| | HOLD | Both gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | Div A micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div A | OPEN |
| | HOLD | Both gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | Div B micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div B | OPEN |
| | CLOSE | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| <input type="checkbox"/> | VERIFY | The gate box Gate Reset light is | OFF |

- | | | | |
|--------------------------|---------------|-------------------------------------|---------------|
| <input type="checkbox"/> | RESET | The gate with #15 RC Sweep key | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | RESET |
| <input type="checkbox"/> | VERIFY | The gate box Gate Reset light is | ON |
| | OPEN | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| <input type="checkbox"/> | VERIFY | The gate box Gate Reset light is | OFF |
| | CLOSE | The gate | |
- ☐ **CHECK** for test acceptance of **MAGNET TRANSPORT GATE, Right Side, at 7MD1**

1.8 Test of ENTRY GATE at 8GE2

- | | | | |
|--------------------------|----------------|---|----------------|
| <input type="checkbox"/> | VERIFY | INNER Gate at 8GE2 has been inspected | |
| | PLACE | PEER 17 in Controlled Access (MODE 16) | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Controlled Access | MODE 16 |
| <input type="checkbox"/> | VERIFY | The warning lights on the inside of the gate indicate: | |
| | | CALL MCR FOR EXIT AMBER | ON |
| <input type="checkbox"/> | VERIFY | The Exterior gate box Controlled Access light is | ON |
| | OPEN | Gate 8GE2 with Simultaneous Release and #14 CA Key | |
| <input type="checkbox"/> | VERIFY | Simultaneous Release Buzzer | SOUNDS |
| <input type="checkbox"/> | VERIFY | Gate 8GE2 is | OPEN |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | OPEN |
| | SECURE | The Electric Strike micro switch | MADE |
| | HOLD | Both of the gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | Div A micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div A | OPEN |
| | HOLD | Both of the gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | Div B micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div B | OPEN |
| | HOLD | Both of the gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | The Electric Strike micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | OPEN |
| | CLOSE | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| <input type="checkbox"/> | VERIFY | The gate box Gate Reset light is | OFF |
-
- | | | | |
|--------------------------|---------------|--|----------------|
| | PLACE | PEER 17 in Controlled Access (MODE 17) | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Controlled Access | MODE 17 |
| <input type="checkbox"/> | VERIFY | The 2Z1 gate box Controlled Access light is | ON |
| <input type="checkbox"/> | VERIFY | The warning light on the inside of the gate indicate: | |
| | | CALL MCR FOR EXIT AMBER | ON |

	OPEN	Gate 8GE2 from gate box with the S key and Simultaneous Release	
<input type="checkbox"/>	VERIFY	Attempt to open Gate 8GE2 is	FAIL
	OPEN	Gate 8GE2 with the #14 RC CA key and Simultaneous Release	
<input type="checkbox"/>	VERIFY	Gate 8GE2 is	OPEN
	CLOSE	Gate 8GE2	
	PLACE	PEER 17 in Restricted Access (Mode 8)	
<input type="checkbox"/>	VERIFY	PEER 17 is in Restricted Access	MODE 8
<input type="checkbox"/>	VERIFY	The Exterior gate box Restricted Access light is	ON
<input type="checkbox"/>	VERIFY	The warning light inside the gate indicate: CALL MCR FOR EXIT AMBER	OFF
<input type="checkbox"/>	VERIFY	Attempt to open gate 7GE1 with S key is	SUCCESSFUL
<input type="checkbox"/>	VERIFY	Attempt to open Gate 7GE1 with #14 RC CA key is	SUCCESSFUL
<input type="checkbox"/>	VERIFY	Attempt to open 7GE1 with Blue card	SUCCESSFUL
<input type="checkbox"/>	VERIFY	Attempt to open 7GE1 with Expt. _____ card	FAIL
<input type="checkbox"/>	VERIFY	During attempt with Expt. Card Reader light is	RED
	PLACE	PEER 17 in Safe Access (Mode 2)	
<input type="checkbox"/>	VERIFY	PEER 17 is in Safe Access	MODE 2
<input type="checkbox"/>	VERIFY	The Exterior gate box Controlled Access light is	ON
<input type="checkbox"/>	VERIFY	The warning light inside the gate indicate: CALL MCR FOR EXIT AMBER	ON
	OPEN	Gate 8GE2 with Simultaneous Release and #14 CA Key	
<input type="checkbox"/>	VERIFY	Gate 8GE2 is	OPEN
	CLOSE	Gate 8GE2	
<input type="checkbox"/>	CHECK for test acceptance of ENTRY GATE at 8GE2		

1.9 Test of MAGNET TRANSPORT GATE, LEFT SIDE, at 8MD1

<input type="checkbox"/>	VERIFY	Gate has been inspected	
	PLACE	PEER 17 in Controlled Access (MODE 16)	
<input type="checkbox"/>	VERIFY	PEER 17 is in Controlled Access	MODE 16
	OPEN	The gate	
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is	OPEN
	HOLD	Both gate micro switches	MADE
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is	CLOSED
	RELEASE	Div A micro switch	
<input type="checkbox"/>	VERIFY	Operator Interface indicates Div A	OPEN
	HOLD	Both gate micro switches	MADE
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is	CLOSED
	RELEASE	Div B micro switch	
<input type="checkbox"/>	VERIFY	Operator Interface indicates Div B	OPEN
	CLOSE	The gate	
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is	CLOSED
<input type="checkbox"/>	VERIFY	The gate box Gate Reset light is	OFF

- | | | | |
|--------------------------|---------------|-------------------------------------|---------------|
| <input type="checkbox"/> | RESET | The gate with #15 RC Sweep key | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | RESET |
| <input type="checkbox"/> | VERIFY | The gate box Gate Reset light is | ON |
| | OPEN | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| <input type="checkbox"/> | VERIFY | The gate box Gate Reset light is | OFF |
| | CLOSE | The gate | |
- ☐ **CHECK** for test acceptance of **MAGNET TRANSPORT GATE, LEFT SIDE**, at **8MD1**

1.10 Test of MAGNET TRANSPORT GATE, RIGHT SIDE, at 8MD1

- | | | | |
|--------------------------|----------------|---|----------------|
| <input type="checkbox"/> | VERIFY | Gate has been inspected | |
| | PLACE | PEER 17 in Controlled Access (MODE 16) | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Controlled Access | MODE 16 |
| | OPEN | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | OPEN |
| | HOLD | Both gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | Div A micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div A | OPEN |
| | HOLD | Both gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | Div B micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div B | OPEN |
| | CLOSE | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| <input type="checkbox"/> | VERIFY | The gate box Gate Reset light is | OFF |
| | RESET | The gate with #15 RC Sweep key | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | RESET |
| <input type="checkbox"/> | VERIFY | The gate box Gate Reset light is | ON |
| | OPEN | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| <input type="checkbox"/> | VERIFY | The gate box Gate Reset light is | OFF |
| | CLOSE | The gate | |
- ☐ **Check** for acceptance of **Test of MAGNET TRANSPORT GATE, Right Side**, at **8MD1**

1.11 Test ESCAPE DOOR at 8EL1

<input type="checkbox"/>	VERIFY	Gate has been inspected	
<input type="checkbox"/>	VERIFY	The door cannot be opened from	OUTSIDE
	PLACE	PEER 17 in Controlled Access (MODE 16)	
<input type="checkbox"/>	VERIFY	PEER 17 is in Controlled Access	MODE 16
	OPEN	The door	
<input type="checkbox"/>	VERIFY	Operator Interface sees the door is	OPEN
	SECURE	The Security Bar micro switch	MADE
	HOLD	Both of the door micro switches	MADE
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is	CLOSED
	RELEASE	Div A door micro switch	
<input type="checkbox"/>	VERIFY	Operator Interface indicates Div A	OPEN
	HOLD	Both of the door micro switches	MADE
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is	CLOSED
	RELEASE	Div B door micro switch	
<input type="checkbox"/>	VERIFY	Operator Interface indicates Div B	OPEN
	HOLD	Both of the door micro switches	MADE
<input type="checkbox"/>	VERIFY	Operator Interface sees the door is	CLOSED
	RELEASE	The Security Bar micro switch	
<input type="checkbox"/>	VERIFY	Operator Interface sees the door is	OPEN
	CLOSE	The door and latch the Security Bar	
<input type="checkbox"/>	VERIFY	The 8EL1 Door Reset light is	OFF
	RESET	The Door with #15 RC Sweep key at 8EL1 gate box	
<input type="checkbox"/>	VERIFY	Operator Interface sees the 8EL1 door is	RESET
<input type="checkbox"/>	VERIFY	The 8EL1 Door Reset light is	ON
	OPEN	The door	
<input type="checkbox"/>	VERIFY	Operator Interface sees the door is	OPEN
<input type="checkbox"/>	VERIFY	The 8EL1 gate box Gate Reset light is	OFF
	CLOSE	The door	

- ☐ **CHECK** for test acceptance of **ESCAPE DOOR** at **8EL1**

1.12 Test of EXIT DOOR 8ED2

<input type="checkbox"/>	VERIFY	Gate has been inspected	
<input type="checkbox"/>	VERIFY	The door cannot be opened from the outside	
	PLACE	PEER 17 in Controlled Access (MODE 16)	
<input type="checkbox"/>	VERIFY	PEER 17 is in Controlled Access	MODE 16
<input type="checkbox"/>	VERIFY	The warning light inside the gate indicates:	
		CALL MCR FOR EXIT AMBER	ON
	OPEN	The door	
<input type="checkbox"/>	VERIFY	Operator Interface sees the door is	OPEN
	HOLD	Both of the door micro switches	MADE
<input type="checkbox"/>	VERIFY	Operator Interface sees the door is	CLOSED
	RELEASE	Div A door micro switch	
<input type="checkbox"/>	VERIFY	Operator Interface indicates Div A	OPEN

- | | | | |
|--------------------------|----------------|---|---------------|
| <input type="checkbox"/> | HOLD | Both of the door micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the door is | CLOSED |
| | RELEASE | Div B door micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div B | OPEN |
| | CLOSE | The door | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the door is | CLOSED |
| <input type="checkbox"/> | VERIFY | The 8ED2 Door Reset light is | OFF |
| | RESET | The Door with #15 RC Sweep key at 8ED2 gate box | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the 8ED2 door is | RESET |
| <input type="checkbox"/> | VERIFY | The 8ED2 Door Reset light is | ON |
| | OPEN | The door | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the door is | OPEN |
| <input type="checkbox"/> | VERIFY | The 8ED2 gate box Gate Reset light is | OFF |
| | CLOSE | The door | |
- ☐ **CHECK** for test acceptance of **ESCAPE DOOR** at **8ED2**

1.13 Test INNER GATE at 9GS1

- | | | | |
|--------------------------|---------------|---|----------------|
| <input type="checkbox"/> | VERIFY | Gate has been inspected | |
| | PLACE | PEER 15 in Restricted Access (Mode 8) | |
| <input type="checkbox"/> | VERIFY | PEER 15 is in Restricted Access | MODE 8 |
| | PLACE | PEER 17 in Controlled Access (MODE 16) | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Controlled Access | MODE 16 |
| <input type="checkbox"/> | VERIFY | The warning lights and LED message: Stop Call MCR for Access X-7400 on both sides of the gate are | ON |
| | OPEN | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | OPEN |
| | CLOSE | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
- ☐ **CHECK** for test acceptance of **INNER GATE** at **9GS1**

1.14 Test OUTER GATE at 9GS1

- | | | | |
|--------------------------|---------------|---|----------------|
| | PLACE | PEER 17 in Controlled Access (MODE 16) | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Controlled Access | MODE 16 |
| <input type="checkbox"/> | VERIFY | The warning light on the 9Z1 side of the gate indicates: | ON |
| | | CALL MCR FOR CROSSOVER AMBER | |
| | OPEN | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | OPEN |
| | CLOSE | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
- ☐ **CHECK** for test acceptance of **OUTER GATE** at **9GS1**

1.15 Test of ENTRY GATE at 8GE1 (Available only when the PHENIX Plug Door is open.

<input type="checkbox"/>	VERIFY	ENTRY Gate at 8GE1 has been inspected	
	PLACE	PEER 17 in Controlled Access (MODE 16)	
<input type="checkbox"/>	VERIFY	PEER 17 is in Controlled Access	MODE 16
<input type="checkbox"/>	VERIFY	The warning light on the inside of the gate indicates: CALL MCR FOR EXIT AMBER	ON
<input type="checkbox"/>	VERIFY	The Exterior gate box Controlled Access light is	ON
	OPEN	Gate 8GE1 with Simultaneous Release and #14 CA Key	
<input type="checkbox"/>	VERIFY	Simultaneous Release Buzzer	SOUNDS
<input type="checkbox"/>	VERIFY	Gate 8GE1 is	OPEN
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is	OPEN
	SECURE	The Electric Strike micro switch	MADE
	HOLD	Both of the gate micro switches	MADE
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is	CLOSED
	RELEASE	Div A micro switch	
<input type="checkbox"/>	VERIFY	Operator Interface indicates Div A	OPEN
	HOLD	Both of the gate micro switches	MADE
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is	CLOSED
	RELEASE	Div B micro switch	
<input type="checkbox"/>	VERIFY	Operator Interface indicates Div B	OPEN
	HOLD	Both of the gate micro switches	MADE
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is	CLOSED
	RELEASE	The Electric Strike micro switch	
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is	OPEN
	CLOSE	The gate	
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is	CLOSED
<input type="checkbox"/>	VERIFY	The gate box Gate Reset light is	OFF
	PLACE	PEER 17 in Controlled Access (MODE 17)	
<input type="checkbox"/>	VERIFY	PEER 17 is in Controlled Access	MODE 17
<input type="checkbox"/>	VERIFY	The 8Z1 gate box Restricted Access light is	ON
<input type="checkbox"/>	VERIFY	The warning light on the inside of the gate indicate: CALL MCR FOR EXIT AMBER	OFF
	OPEN	Gate 8GE1 from gate box with the S key	
<input type="checkbox"/>	VERIFY	Attempt to open Gate 8GE1 is	SUCCESSFUL
	OPEN	Gate 8GE1 with the #14 RC CA key	
<input type="checkbox"/>	VERIFY	Gate 8GE1 is	OPEN
	CLOSE	Gate 8GE1	
	PLACE	PEER 17 in Restricted Access (Mode 8)	
<input type="checkbox"/>	VERIFY	PEER 17 is in Restricted Access	MODE 8
<input type="checkbox"/>	VERIFY	The Exterior gate box Restricted Access light is	ON
<input type="checkbox"/>	VERIFY	The warning lights on both sides of the gate indicate: CALL MCR FOR EXIT AMBER	OFF
<input type="checkbox"/>	VERIFY	Attempt to open gate 8GE1 with S key is	SUCCESSFUL
<input type="checkbox"/>	VERIFY	Attempt to open Gate 8GE1 with #14 RC CA key is	SUCCESSFUL
<input type="checkbox"/>	VERIFY	Attempt to open 8GE1 with Blue card	SUCCESSFUL

- | | | | |
|--------------------------|---------------|--|-------------------|
| <input type="checkbox"/> | VERIFY | Attempt to open 8GE1 with Phoenix Red card is | SUCCESSFUL |
| <input type="checkbox"/> | VERIFY | Attempt to open 8GE1 with any other | FAIL |
| | | Expt. Card: _____ | |
| <input type="checkbox"/> | VERIFY | During attempt with Expt. Card Reader light is | RED |
| | PLACE | PEER 17 in Safe Access (Mode 2) | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Safe Access | MODE 2 |
| <input type="checkbox"/> | VERIFY | The Exterior gate box Controlled Access light is | ON |
| <input type="checkbox"/> | VERIFY | The warning light on inside of the gate indicates: | |
| | | CALL MCR FOR EXIT AMBER | ON |
| | OPEN | Gate 8GE1 with Simultaneous Release and S Key | |
| <input type="checkbox"/> | VERIFY | Attempt to open gate 8GE1 with Simultaneous Release and S Key | FAIL |
| | OPEN | Gate 8GE1 with Simultaneous Release and #14 CA Key | |
| <input type="checkbox"/> | VERIFY | Gate 8GE1 is | OPEN |
| | CLOSE | Gate 8GE1 | |
| <input type="checkbox"/> | CHECK | for test acceptance of ENTRY GATE at 8GE1 | |

1.16 Test of Iris Scanner and Local Keytree located at PHENIX Control Room (PCR)

- | | | | |
|--------------------------|----------------|--|---------------------|
| | PLACE | PEER 17 in CA, Mode 16 | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in CA | MODE 16 |
| | SCAN | Valid Personnel with Iris Scanner at PCR | |
| <input type="checkbox"/> | VERIFY | Valid Personnel is | RECOGNIZED |
| <input type="checkbox"/> | VERIFY | First PHENIX key in Local keytree at PCR | RELEASED |
| <input type="checkbox"/> | VERIFY | Attempt to enter 8GE1 with PHENIX key and SR is | SUCCESSFUL |
| | SCAN | Valid Personnel with Iris Scanner at PCR | |
| <input type="checkbox"/> | VERIFY | Valid Personnel is | RECOGNIZED |
| <input type="checkbox"/> | VERIFY | Attempt to release third PHENIX key in Local keytree at PCR is | UNSUCCESSFUL |
| | SCAN | Valid Personnel with Iris Scanner at PCR | |
| <input type="checkbox"/> | VERIFY | Valid Personnel is | RECOGNIZED |
| <input type="checkbox"/> | VERIFY | Attempt to release second PHENIX key in Local keytree at PCR | SUCCESSFUL |
| <input type="checkbox"/> | VERIFY | Attempt to enter 8GE1 with second PHENIX key and SR is | SUCCESSFUL |
| | REPLACE | First and second PHENIX keys in local keytree at PCR | |
| <input type="checkbox"/> | VERIFY | First PHENIX key <input type="checkbox"/> and Second PHENIX key <input type="checkbox"/> | REPLACED |
| | PLACE | PEER 17 in Controlled Access (XA), Mode 17 | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in XA | MODE 17 |

- | | | | |
|--------------------------|-------------------------|--|-------------------|
| <input type="checkbox"/> | SCAN
VERIFY | Valid Personnel with Iris Scanner at PCR
Valid Personnel is | RECOGNIZED |
| <input type="checkbox"/> | VERIFY | First PHENIX key in Local keytree at PCR
remains | CAPTURED |
| <input type="checkbox"/> | PLACE
VERIFY | PEER 17 in Restricted Access (Mode 8)
PEER 17 is in Restricted Access | MODE 8 |
- ☐ **Check for acceptance of Test of Iris Scanner and Local Keytree located at PHENIX Control Room**

1.17 Test of EXIT DOOR 8ED1 (Available when Experiment is not in place)

- | | | | |
|--------------------------|-------------------------|---|----------------|
| <input type="checkbox"/> | VERIFY | Gate has been inspected | |
| <input type="checkbox"/> | VERIFY | The door cannot be opened from the outside | OUTSIDE |
| <input type="checkbox"/> | PLACE
VERIFY | PEER 17 in Controlled Access (MODE 16)
PEER 17 is in Controlled Access | MODE 16 |
| <input type="checkbox"/> | VERIFY | The warning light inside the gate indicates:
CALL MCR FOR EXIT | AMBER |
| | OPEN | The door | ON |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the door is | OPEN |
| | HOLD | Both of the door micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the door is | CLOSED |
| | RELEASE | Div A door micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div A | OPEN |
| | HOLD | Both of the door micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the door is | CLOSED |
| | RELEASE | Div B door micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div B | OPEN |
| | CLOSE | The door | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the door is | CLOSED |
| <input type="checkbox"/> | VERIFY | The 8ED1 Door Reset light is | OFF |
| | RESET | The Door with #15 RC Sweep key at 8ED1 gate box | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the 8ED1 door is | RESET |
| <input type="checkbox"/> | VERIFY | The 8ED1 Door Reset light is | ON |
| | OPEN | The door | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the door is | OPEN |
| <input type="checkbox"/> | VERIFY | The 8ED1 gate box Gate Reset light is | OFF |
| | CLOSE | The door | |
- ☐ **CHECK** for test acceptance of **ESCAPE DOOR** at **8ED1**

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing: _____

Date: ____/____/____

TTL: Sign for completion of final testing: _____

Date: ____/____/____